

Feynman Clocks, the Vacuum, Gravity Waves, and Time

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Summary Notes as of 11/03/20

Each point in the vacuum [space] is a Feynman Clock

If you take the 'time' out of space-time diagrams you are left with space diagrams whose various particle interactions represent nodes in a space network of evolving objects in the vacuum. At this point cause and effect patterns in complex causal networks representing the evolution of particle systems can be used.

The nodes in these networks where interactions or spontaneous decays and emissions occur can be represented by my model of Feynman clocks or detectors as outlined in my papers.

Time reversal is an irrelevant concept with this model. Time travel paradoxes also disappear. Particles such as the positron being a time reversed electron as proposed by Feynman are not possible or necessary with correct space diagrams. In other words there is no time dimension [as in space-time] to 'reverse' in.

This leads to the following: [1] Feynman diagrams can be represented as Feynman Clocks nodes connected by incoming or outgoing particles leading to space maps of cause and effect patterns in space WITHOUT TIME and [2] Every point in the vacuum can be thought of as a VIRTUAL Feynman Clock that become REAL Feynman Clocks when particles are present, interact or decay.

Time is a computed artifact from causal network activities using the Brains T-computer and signals with information content generated by evolutionary changes in the states of composite systems forming the network. See my papers on this website to see how the nodes composed of Feynman Clocks/Detectors form causal networks where the links between nodes are space paths of particles.

Gravity waves and the vacuum

The vacuum or space has fluid like properties. Not an ether but as an energy sea with surface tension like a fluid. My speculation is that gravity waves and photons in the quantum limit [microscopic] of discrete particle-like wave packets act as individual solitons [photons] propagating on the surface of the high energy vacuum which contains all the dark energy and dark matter as well as observable matter. In the classical domain [macroscopic and cosmic] of large numbers of these solitons they act collectively like Newtonian waves. The reason that they can propagate through space without decaying while keeping their fundamental wavelength and soliton properties is that they are soliton perturbations of the vacuum sea of energy but yet remain coherent. These are speculations and of course subject to experimental verification.

Part of the problem with time travel aside from the profoundly wrong ideas concerning the nature of time is that there is an almost religious belief that there is a 'past' that exists somewhere and a false belief that there is also a 'future' that exists somewhere as well that are both accessible from our position in the 'now'. This reflects the magical thinking that is evident in many religions around the world.

From a scientific point of view there exist many myths about time that are used to validate or rationalize these pseudo scientific religious delusions starting with time as something that exists independent of the reality of being stuck in the now of everyday existence.

I think the foundations of general relativity and all subset of physics that claim to define time as a dimension are fundamentally flawed with regard to the space-time concept as it has been used for the last 100+ years [starting with Minkowski in 1908]. This is why there has been little progress in really understanding time.

As I have noted, Feynman was wrong in 1949 when he published a paper that stated positrons could be viewed as time reversed electrons. This is because he incorrectly assumed that time was reversible due to his belief in space-time as fundamental to physics of his day. He was not alone in this misguided approach to physics.

When you approach the problem of time from a causal network point of view, as I have, the apparent time paradoxes disappear. Most physicists still hold space-time sacred. This in my opinion leads to wrong ideas about space and especially time. This is why I refer you to my papers on the vacuum.

The vacuum is space and time is created from Changes in the Configurations of Matter in an Evolving Universe

We attribute dimensions to the vacuum [space] as part of our application of geometry [models] to the real world. Kip Thorne adheres to these deeply flawed ideas about time, time reversal, and time travel.

Wormholes are classic examples of reading too much into a mathematical theory without a sound foundation in the experimental side of physics [and engineering]. Regardless of the elegance, seductiveness, and complexity of the mathematics used in general relativity and extensions of it in cosmological models, one can get lost in these maps [theory] which are not the same as the territory [reality].

In summary I reject the concept of space-time as it is used by pretty much everyone else but me. Space-time needs to be replaced with causal networks that are time independent but yet create time as a secondary computed artifact resulting from information [via signals] processed by the T-computers in our brains and those instruments we create to measure these changes in an evolutionary universe.

It is "time" to replace old and wrong concepts of time with a new understanding of time as OUR measure of change in the 21st century!

For more on these ideas see my papers at https://www.researchgate.net/profile/Scott_Hitchcock